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Spraying Calendar for Apples in North Carolina

Compiled by the Divisions of Plant Pathology, Entomology and Horticulture, N. C. Agricultural Extension Service

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AGRICULTURAL EXTENSION SERVICE
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Raleigh and West Raleigh

No.	TIME OF APPLICATION	SPRAY
1	Dormant season	Concentrated standar part to 8 parts wa ing to dilution tabl
2	When pink first shows in buds	Standard lime-sulphu or test and dilute a 1 pound powdered lead to 50 gallons s
3	When petals are seven-eighths fallen	Standard lime-sulphur or test and dilute a 1 pound powdered lead to 50 gallons s
4	Two or three weeks after No. 3	Same as above. (If Bordeaux 3-4-50 fo
5	Six to eight weeks after No. 3	Bordeaux mixture, 3-4 1 pound powdered lead to 50 gallons B
6	Three weeks after No. 5	Bordeaux mixture, 3-4
7	Three weeks after No. 6, or when bitter rot appears	Bordeaux mixture, 3-4

	PESTS	REMARKS
phur 1 accord- ed	Scale insects San Jose Scale	
water, e. Add ıate of	Scab Bud moth	If aphids were severe previous year, use ¾ pints nicotine sulphate to 100 gallons water
water e. Add ıate of	Codling moth Scab Leaf-eating insects	Same as above
ıt, use	Frog-eye leaf spot Blotch Codling moth Scab	
added ate of	Frog-eye leaf spot Bitter rot Codling moth Lesser apple worm Blotch Black rot Scab Sooty Blotch	
	Bitter rot Blotch Black rot Scab	All orchards in which bitter rot has been noticed previous season, or if bitter rot appears
	Bitter rot Scab	To varieties susceptible to bitter rot in Piedmont and East

DILUTIONS OF LIME-SULPHUR FOR DORMANT AND SUMMER SPRAYING

Reading of Hydrometer.	Amount of Dilution Number of gallons of water to one gallon lime-sulphur	
Degrees Baume	For Scale (winter strength)	For Summer Spraying of Apple
35	1 to 9	1 to 45
34	1 to 8¾	1 to 43¼
33	1 to 8¼	1 to 41½
32	1 to 8	1 to 40
31	1 to 7½	1 to 37¾
30	1 to 7¼	1 to 36¼
29	1 to 6¾	1 to 34¼
28	1 to 6½	1 to 32¾
27	1 to 6	1 to 31
26	1 to 5¾	1 to 29½
25	1 to 5¼	1 to 27¼
24	1 to 5	1 to 26
23	1 to 4½	1 to 24¼
22	1 to 4¼	1 to 22¾

BORDEAUX MIXTURE—DIRECTIONS FOR MAKING

Copper sulphate (bluestone)	3 pounds
Fresh stone lime	4 pounds
Water	50 gallons

To make Bordeaux mixture for use in an ordinary barrel sprayer, dissolve the bluestone in 25 gallons of water and, in a separate container, slake the stone lime, and dilute with water to 25 gallons. The two solutions then should be poured simultaneously through a strainer into the spray tank. Stock solutions, especially where large quantities are to be used, are desirable, since they save time. A stock solution of bluestone is made by dissolving it at the rate of 1 pound to 1 gallon of water. The bluestone should be suspended in a sack in the upper part of the barrel, or other container, so that it is just beneath the surface of the water. It will be dissolved if left for a few hours in cold water and more rapidly in hot water. A stock solution of lime may be made by slaking the lime in a little water and then diluting so that each gallon of water contains 1 pound of lime. Just before the stock solutions are used they should be stirred thoroughly. To make up 50 gallons of Bordeaux mixture from stock solutions it is only necessary for 3 gallons of the stock solution of bluestone to be poured into a suitable container, and 4 gallons of the stock solution of lime into a separate container, diluting each to 25 gallons, then pouring them simultaneously into the spray tank.

For more complete spraying information write for Extension Circular No. 66.